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Exam : CKA

**Title : Certified Kubernetes
Administrator**

Version : DEMO

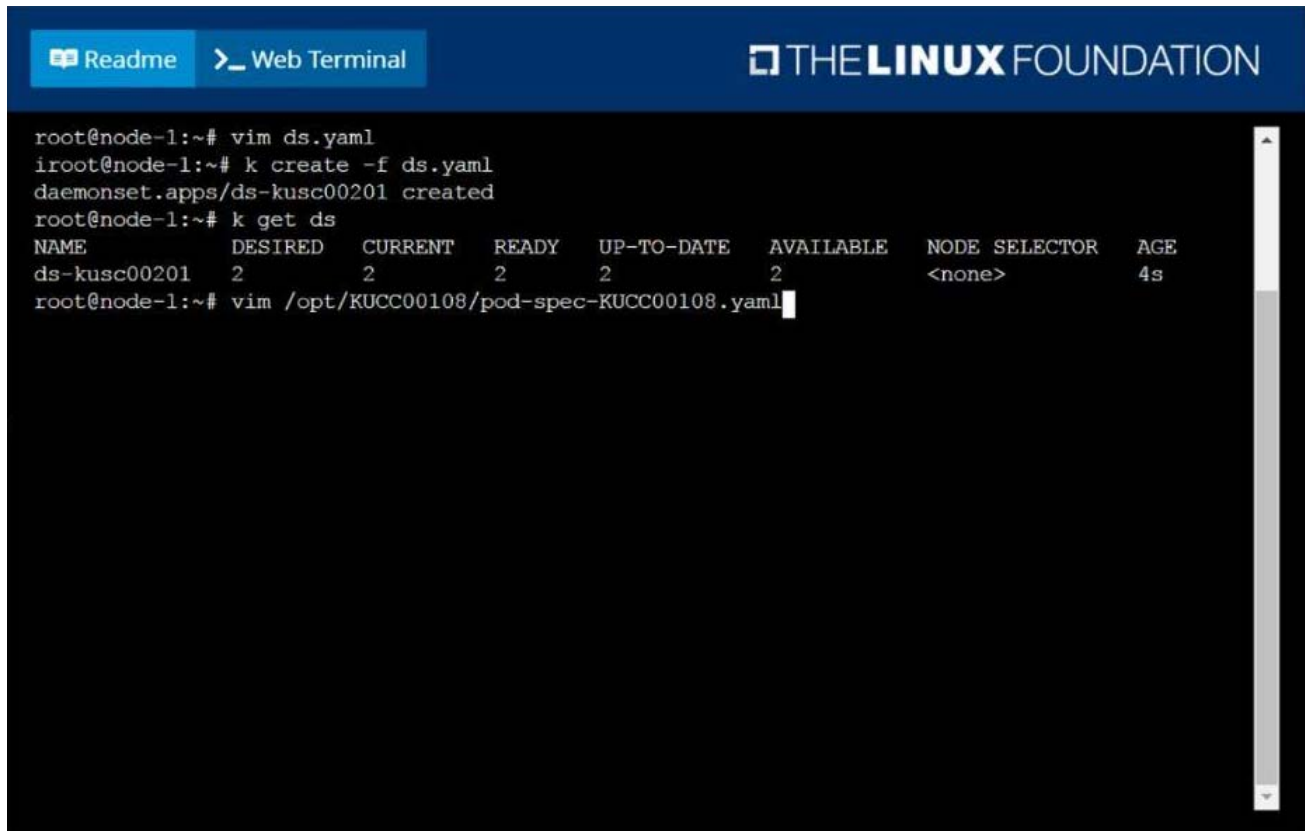
1.CORRECT TEXT

Perform the following tasks:

- ⇒ Add an init container to hungry-bear (which has been defined in spec file /opt/KUCC00108/pod-spec-KUCC00108.yaml)
- ⇒ The init container should create an empty file named/workdir/calm.txt
- ⇒ If /workdir/calm.txt is not detected, the pod should exit
- ⇒ Once the spec file has been updated with the init container definition, the pod should be created

Answer:

solution



The screenshot shows a web terminal interface with a dark background. At the top, there are two buttons: 'Readme' and 'Web Terminal'. To the right of these buttons is the 'THE LINUX FOUNDATION' logo. The terminal content shows a series of commands and their outputs:

```
root@node-1:~# vim ds.yaml
iroot@node-1:~# k create -f ds.yaml
daemonset.apps/ds-kusc00201 created
root@node-1:~# k get ds
```

| NAME | DESIRED | CURRENT | READY | UP-TO-DATE | AVAILABLE | NODE SELECTOR | AGE |
|--------------|---------|---------|-------|------------|-----------|---------------|-----|
| ds-kusc00201 | 2 | 2 | 2 | 2 | 2 | <none> | 4s |

```
root@node-1:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml
```

Readme

Web Terminal

THE **LINUX** FOUNDATION

```
apiVersion: v1
kind: Pod
metadata:
  name: hungry-bear
spec:
  volumes:
  - name: workdir
    emptyDir: {}
  containers:
  - name: checker
    image: alpine
    command: ["/bin/sh", "-c", "if [ -f /workdir/calm.txt ];
              then sleep 100000; else exit 1; fi"]
    volumeMounts:
    - name: workdir
      mountPath: /workdir
  initContainers:
  - name: create
    image: alpine
    command: ["/bin/sh", "-c", "touch /workdir/calm.txt"]
    volumeMounts:
    - name: workdir
      mountPath: /workdir
:WQ
```

Readme

Web Terminal

THE **LINUX** FOUNDATION

```
root@node-1:~# vim ds.yaml
iroot@node-1:~# k create -f ds.yaml
daemonset.apps/ds-kusc00201 created
root@node-1:~# k get ds
NAME                DESIRED   CURRENT   READY   UP-TO-DATE   AVAILABLE   NODE SELECTOR   AGE
ds-kusc00201        2         2         2       2            2           <none>          4s
root@node-1:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml
root@node-1:~# k create -f /opt/KUCC00108/pod-spec-KUCC00108.yaml
pod/hungry-bear created
root@node-1:~#
```

2.CORRECT TEXT

Create a deployment spec file that will:

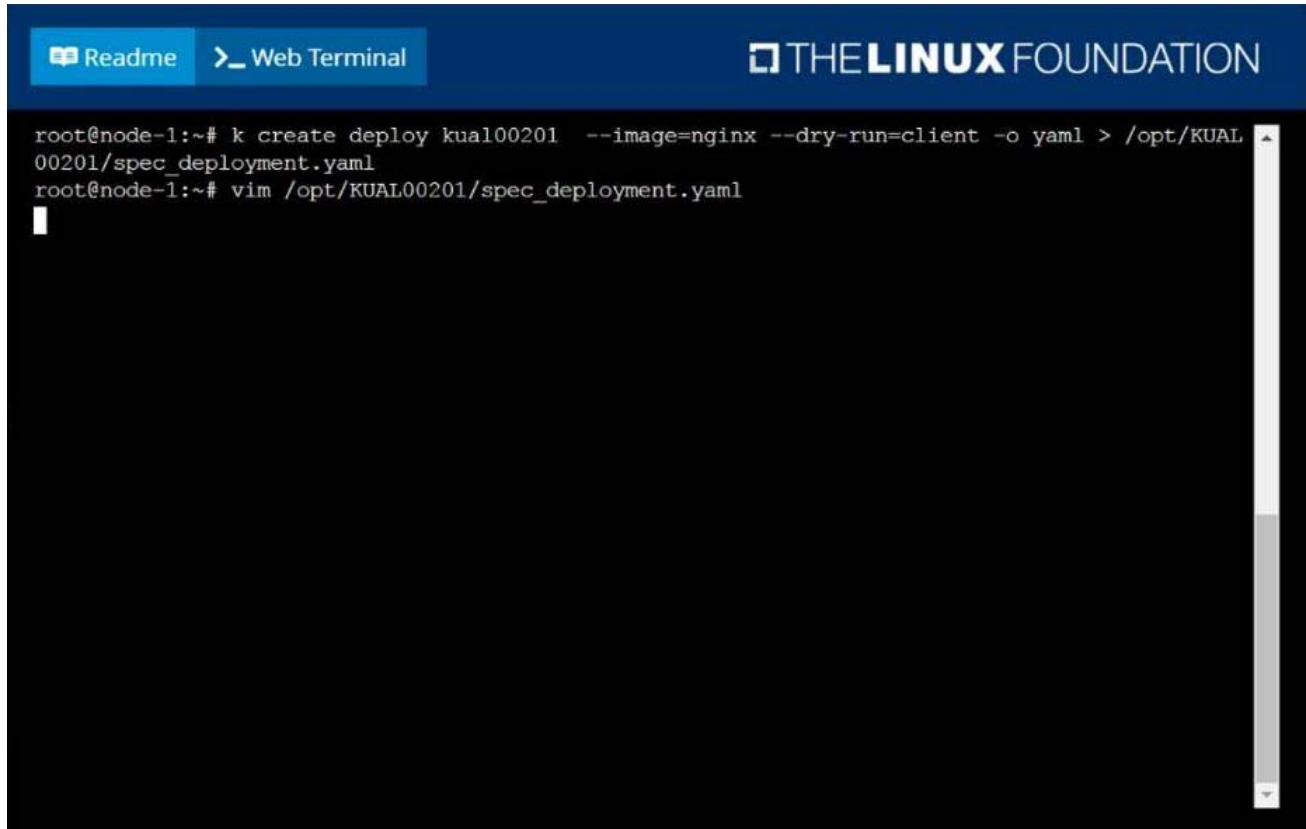
- ☞ Launch 7 replicas of the nginx Image with the labelapp_runtime_stage=dev
- ☞ deployment name: kual00201

Save a copy of this spec file to /opt/KUAL00201/spec_deployment.yaml
(or /opt/KUAL00201/spec_deployment.json).

When you are done, clean up (delete) any new Kubernetes API object that you produced during this task.

Answer:

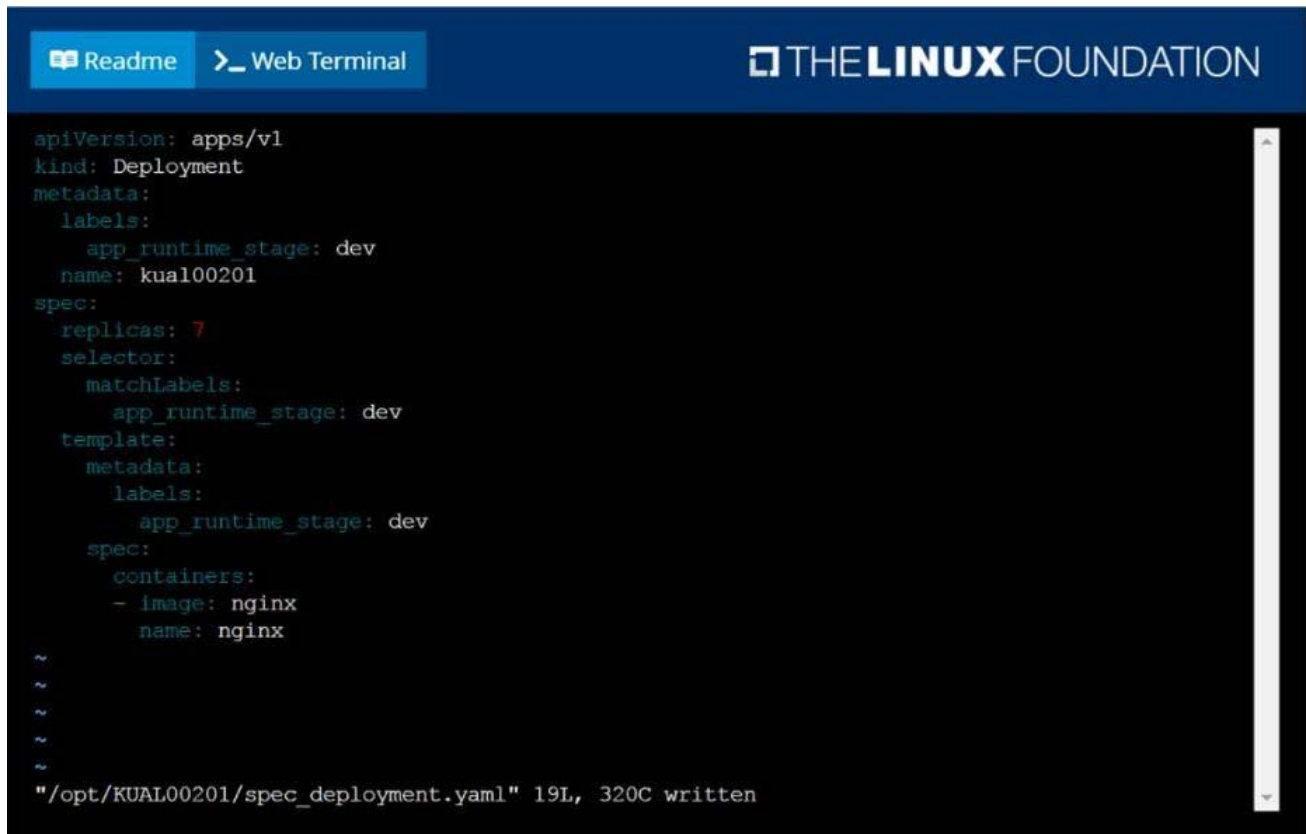
solution



The screenshot shows a web terminal interface with a dark blue header. On the left, there are two buttons: 'Readme' and 'Web Terminal'. On the right, the 'THE LINUX FOUNDATION' logo is displayed. The terminal window shows a root user at a node-1 prompt. The first command executed is 'k create deploy kual00201 --image=nginx --dry-run=client -o yaml > /opt/KUAL00201/spec_deployment.yaml'. The second command is 'vim /opt/KUAL00201/spec_deployment.yaml', which opens a vim editor. The vim editor shows a blank file with a cursor at the first line. A vertical scrollbar is visible on the right side of the terminal window.

```
root@node-1:~# k create deploy kual00201 --image=nginx --dry-run=client -o yaml > /opt/KUAL00201/spec_deployment.yaml
root@node-1:~# vim /opt/KUAL00201/spec_deployment.yaml

```



```
apiVersion: apps/v1
kind: Deployment
metadata:
  labels:
    app_runtime_stage: dev
  name: kual00201
spec:
  replicas: 7
  selector:
    matchLabels:
      app_runtime_stage: dev
  template:
    metadata:
      labels:
        app_runtime_stage: dev
    spec:
      containers:
      - image: nginx
        name: nginx
~
~
~
~
~
"/opt/KUAL00201/spec_deployment.yaml" 19L, 320C written
```

3.CORRECT TEXT

From the pod label name=cpu-utilizer, find pods running high CPU workloads and write the name of the pod consuming most CPU to the file /opt/KUTR00102/KUTR00102.txt (which already exists).

Answer:

solution

Readme

_ Web Terminal

THE **LINUX** FOUNDATION

```
root@node-1:~# k top po -l name=cpu-utilizer
NAME                                CPU (cores)  MEMORY (bytes)
cpu-utilizer-98b9se                 60m          7Mi
cpu-utilizer-ab2d3s                 14m          7Mi
cpu-utilizer-kipb9a                 45m          7Mi
root@node-1:~# vim /opt/KUTR00102/KUTR00102.txt
```

A screenshot of a web terminal interface. The terminal has a dark blue header bar with two buttons on the left: 'Readme' with a book icon and 'Web Terminal' with a terminal icon. On the right side of the header is the 'THE LINUX FOUNDATION' logo. The main area of the terminal is black with white text. It shows a shell prompt 'cpu-utilizer-98b9se' followed by a series of tilde '~' characters representing a directory listing. At the bottom, a prompt ': wc' is visible with a cursor. A vertical scrollbar is on the right side of the terminal window.

4.CORRECT TEXT

Create a Kubernetes secret as follows:

⇒ Name: super-secret

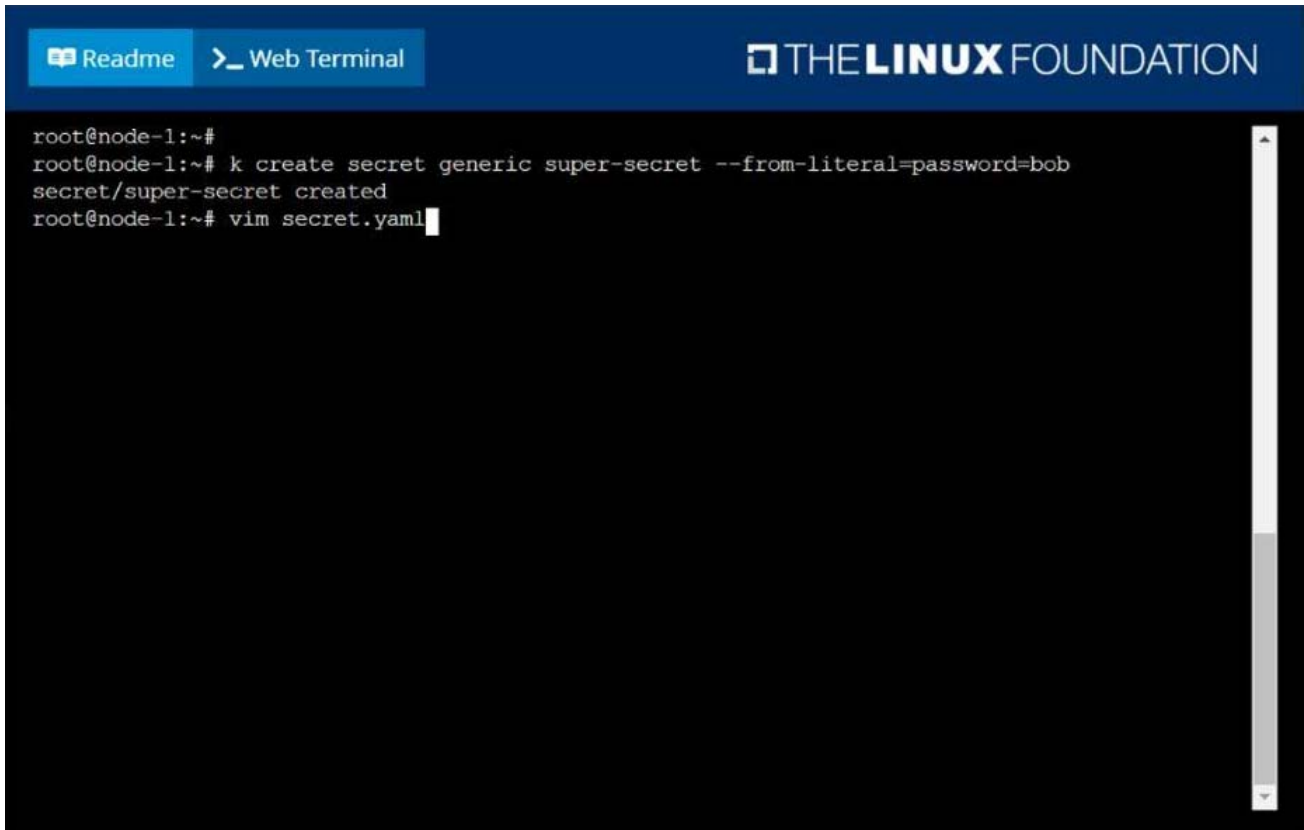
⇒ password: bob

Create a pod named pod-secrets-via-file, using the redis Image, which mounts a secret named super-secret at /secrets.

Create a second pod named pod-secrets-via-env, using the redis Image, which exports password as CONFIDENTIAL

Answer:

solution



```
root@node-1:~#  
root@node-1:~# k create secret generic super-secret --from-literal=password=bob  
secret/super-secret created  
root@node-1:~# vim secret.yaml
```


Readme Web Terminal THE LINUX FOUNDATION

```

apiVersion: v1
kind: Pod
metadata:
  name: pod-secrets-via-file
spec:
  containers:
  - name: redis
    image: redis
    volumeMounts:
    - name: foo
      mountPath: "/secrets"
  volumes:
  - name: foo
    secret:
      secretName: super-secret
~
~
~
~
~
~
~
~
~
~
:w

```

Readme Web Terminal THE LINUX FOUNDATION

```

root@node-1:~# k create -f secret.yaml
pod/pod-secrets-via-file created
root@node-1:~# vim secret1.yaml
root@node-1:~# k create -f secret1.yaml
pod/pod-secrets-via-env created
root@node-1:~# k get po

```

| NAME | READY | STATUS | RESTARTS | AGE |
|----------------------------|-------|---------|----------|-------|
| cpu-utilizer-98b9se | 1/1 | Running | 0 | 6h25m |
| cpu-utilizer-ab2d3s | 1/1 | Running | 0 | 6h25m |
| cpu-utilizer-kipb9a | 1/1 | Running | 0 | 6h25m |
| ds-kusc00201-2r2k9 | 1/1 | Running | 0 | 40m |
| ds-kusc00201-hzm9q | 1/1 | Running | 0 | 40m |
| foo | 1/1 | Running | 0 | 6h28m |
| front-end | 1/1 | Running | 0 | 6h27m |
| hungry-bear | 1/1 | Running | 0 | 36m |
| kucc8 | 3/3 | Running | 0 | 34m |
| nginx-app-848cfcf495-9prjh | 1/1 | Running | 0 | 19m |
| nginx-app-848cfcf495-gl2kh | 1/1 | Running | 0 | 19m |
| nginx-app-848cfcf495-pg2c8 | 1/1 | Running | 0 | 19m |
| nginx-kusc00101 | 1/1 | Running | 0 | 26m |
| pod-secrets-via-env | 1/1 | Running | 0 | 4s |
| pod-secrets-via-file | 1/1 | Running | 0 | 106s |
| webserver-84c55967f4-qzjcv | 1/1 | Running | 0 | 6h43m |
| webserver-84c55967f4-t479l | 1/1 | Running | 0 | 6h43m |

```

root@node-1:~# 

```

5.CORRECT TEXT

Score: 7%



Task

Create a new nginx Ingress resource as follows:

- Name: ping
- Namespace: ing-internal
- Exposing service hi on path /hi using service port 5678



Answer:

Solution:

vi ingress.yaml

#

apiVersion: networking.k8s.io/v1

kind: Ingress metadata: name: ping

namespace: ing-internal

spec:

rules:

- http:

paths:

- path: /hi pathType: Prefix backend: service: name: hi

port:

number: 5678

#

kubectl create -f ingress.yaml